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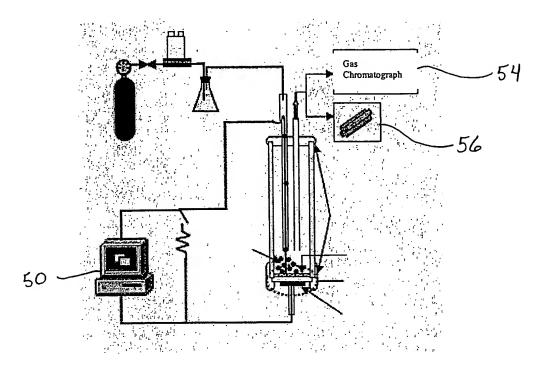
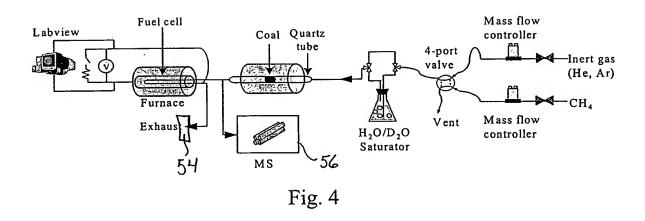


Fig. 3



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## V-I curves of coal gas fuel cell at 700°C

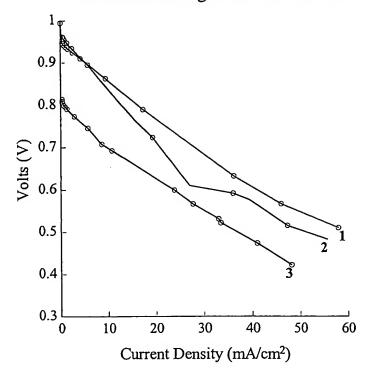


Fig. 5

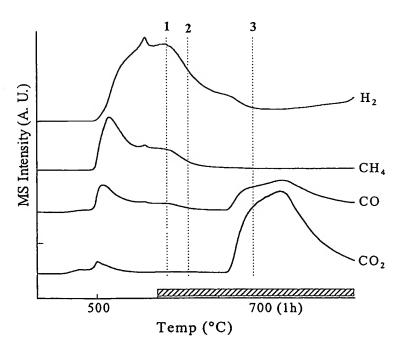
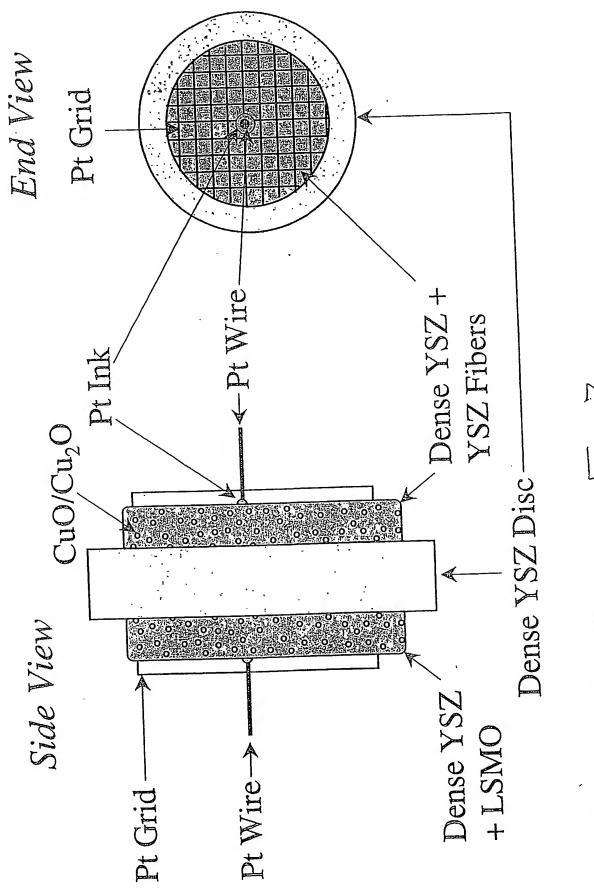


Fig. 6



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FIG. 7

C+CH<sub>4</sub>+Ar : Coke /75%CH<sub>4</sub>/25%Ar  $C + CH_4 + C_7H_{16} + Ar : Coke/70.35\% CH_4/4.65\% C_7H_{16}/25\% Ar$ C+H<sub>2</sub>+H<sub>2</sub>S+Ar: Coke/74.925%H<sub>2</sub>/0.075%H<sub>2</sub>S/25%Ar 1.2 C+Ar: Coke/100%Ar 1 0.8 Voltage(V) 0.6 C+CH<sub>4</sub>+C<sub>7</sub>H<sub>16</sub>+Ar(800°C),50min 0.4 C+Ar(800°C 0.2  $C+H_2+H_2S+Ar(800^{\circ}C)$ 80min C+CH<sub>4</sub>+Ar(800°C) 20 min 0 40 0 20 60 100 120 80

Fig. 8

Current Density (mA/cm<sup>2</sup>)

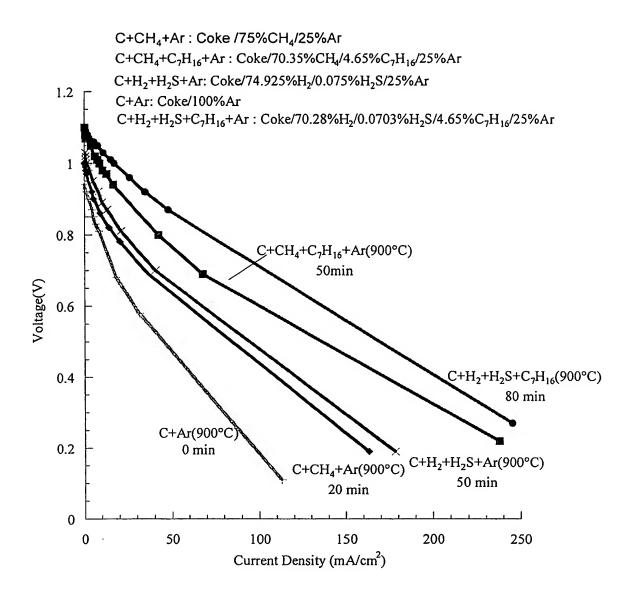


Fig. 9

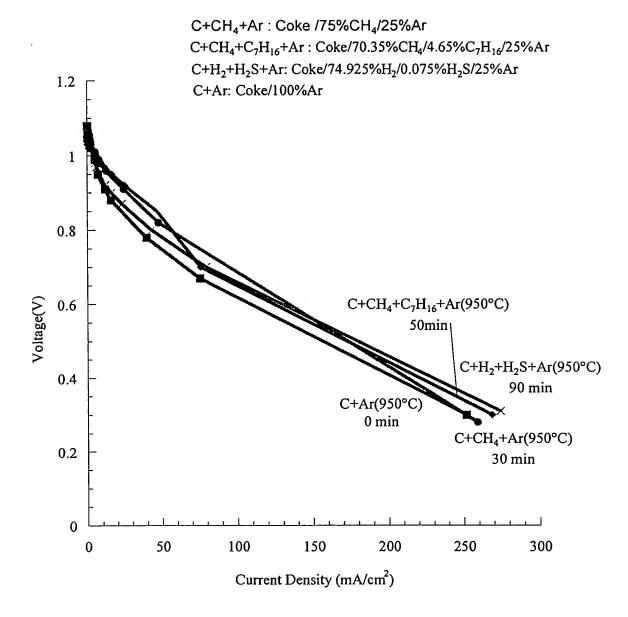


Fig. 10